

FP318US, EP, CN, KR

AMENDMENT OF CLAIMS UNDER PCT ARTICLE 34(2)(b)

5 1. (Amended) A resin composition comprising:

(A) a lactic acid based resin; and

(B) an aromatic aliphatic polyester having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, and an aliphatic
10 polyester other than the lactic acid based resin, having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, and

(B) the aromatic aliphatic polyester having a glass transition temperature (T_g) of 0°C or less and a heat of
15 crystal melting (ΔH_m) of 5 J/g to 30 J/g, and the aliphatic polyester other than the lactic acid based resin, having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, has a content of 5 mass% to 25 mass%.

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2. (Amended) A resin composition comprising:

(A) a lactic acid based resin;

(B) an aromatic aliphatic polyester having a glass transition temperature (T_g) of 0°C or less and a heat of
25 crystal melting (ΔH_m) of 5 J/g to 30 J/g, and/or an aliphatic polyester other than the lactic acid based resin, having

a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, and

(A) the lactic acid based resin, and (B) the aromatic aliphatic polyester having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, and/or the aliphatic polyester other than the lactic acid based resin, having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, are contained in an amount of 90 mass% to 70 mass%; and

(C) an aliphatic polyester other than the lactic acid based resin, having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 50 J/g to 70 J/g, has a content of 10 mass% to 30 mass%, and

(B) the aromatic aliphatic polyester having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, and/or the aliphatic polyester other than the lactic acid based resin, having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, are contained in an amount of 5 mass% to 25 mass%.

3. The resin composition according to claim 1 or 2, further comprising (D) an inorganic filler having a mean particle size of 1 μm to 5 μm within a range of 5 mass% to 20 mass% of the resin composition.

4. The resin composition according to any one of claims 1 to 3, further comprising 0.5 mass part to 10 mass parts of a carbodiimide compound based on a total of 100 mass parts of (A) the lactic acid based resin, (B) the aromatic aliphatic polyester having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, and/or the aliphatic polyester other than the lactic acid based resin, having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, and (C) the aliphatic polyester other than the lactic acid based resin, having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 50 J/g to 70 J/g.

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5. The resin composition according to any one of claims 1 to 4, further comprising 0.5 mass part to 5 mass parts of an ester compound having a molecular weight of 200 to 2,000 based on a total of 100 mass parts of (A) the lactic acid based resin, (B) the aromatic aliphatic polyester having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, and/or the aliphatic polyester other than the lactic acid based resin, having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, and (C) the aliphatic polyester other than the lactic

acid based resin, having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 50 J/g to 70 J/g.

5 6. The resin composition according to any one of claims 1 to 5, further comprising 0.1 mass part to 5 mass parts of a hiding agent having a refractive index of 2.0 or more based on a total of 100 mass parts of (A) the lactic acid based resin, (B) the aromatic aliphatic polyester having
10 a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, and/or the aliphatic polyester other than the lactic acid based resin, having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30
15 J/g, and (C) the aliphatic polyester other than the lactic acid based resin, having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 50 J/g to 70 J/g.

20 7. An injection molded article formed by injection molding the resin composition according to any one of claims 1 to 6.

8. The injection molded article according to claim 7,
25 wherein the molded article formed by the injection molding is further crystallized at a temperature within a range of

60°C to 130°C.

9. (Added) A resin composition comprising:

(A) a lactic acid based resin;

5 (B) an aromatic aliphatic polyester having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, or an aliphatic polyester other than the lactic acid based resin, having a glass transition temperature (T_g) of 0°C or less and a
10 heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, and

(B) the aromatic aliphatic polyester having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, or the aliphatic polyester other than the lactic acid based resin, having
15 a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, has a content of 5 mass% to 25 mass%; and

(D) an inorganic filler having a mean particle size of 1 μm to 5 μm , has a content of 5 mass% to 20 mass% of
20 the resin composition.

10. (Added) A resin composition comprising:

(A) a lactic acid based resin;

(B) an aromatic aliphatic polyester having a glass
25 transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, or an aliphatic

polyester other than the lactic acid based resin, having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, and

the above component (B) has a content of 5 mass% to 25 mass%; and

0.5 mass part to 10 mass parts of a carbodiimide compound based on a total of 100 mass parts of the above component (A) and the above component (B).

11. (Added) A resin composition comprising:

(A) a lactic acid based resin;

(B) an aromatic aliphatic polyester having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, or an aliphatic polyester other than the lactic acid based resin, having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, and

the above component (B) has a content of 5 mass% to 25 mass%; and

0.5 mass part to 5 mass parts of an ester compound having a molecular weight of 200 to 2,000 based on a total of 100 mass parts of the above component (A) and the above component (B).

12. (Added) A resin composition comprising:

(A) a lactic acid based resin;

(B) an aromatic aliphatic polyester having a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, or an aliphatic polyester other than the lactic acid based resin, having
5 a glass transition temperature (T_g) of 0°C or less and a heat of crystal melting (ΔH_m) of 5 J/g to 30 J/g, and
the above component (B) has a content of 5 mass% to 25 mass%; and

0.1 mass part to 5 mass parts of a hiding agent having
10 a refractive index of 2.0 or more based on a total of 100 mass parts of the above component (A) and the above component (B) .

13. (Added) An injection molded article formed by
15 injection molding the resin composition according to any one of claims 9 to 12.

14. (Added) . The injection molded article according to claim 13, wherein the molded article formed by the injection
20 molding is further crystallized at a temperature within a range of 60°C to 130°C.